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TMV-OM	SYSITTPSQFVFLSSAWADPIELINLCTNALGNQFQTQQARTVVQRQFSE
S34858	SYSITTPSQFVFLSSAWADPIELINLCINALGNQFQTQQARTVVQRQFSE
S34857	SYSITTPSQFVFLSSAWADPIELINLCINALGNQFQTQQARTVVQRQFSE
S34856	SYSITTPSQFVFLSSAWADPIELINLCINALGNQFQTQQARTVVQRQFSE
TMV-ER	SYNITTPSQFVFLSSAWADPLELINLCTNALGNQFQTQQARTVVQRQFSE
TMV-06	SYSITTPSHFVFLSSAWADPIELINLCTNALGNQFQTQQARTVVQRQFSE
TMV-vul	SYSITTPSQFVFLSSAWADPIELINLCTNALGNQFQTQQARTVVQRQFSE
TMV-DA	SYSITSPSQFVFLSSVWADPIELLNVCTSSLGNQFQTQQARTTVQQQFSE
TOMV-L	SYSITSPSQFVFLSSVWADPIELLNVCTNSLGNQFQTQQARTTVQQQFSE
ToMV-Kr	SYTVSSANQLVYLGSVWADPLELQNLCTSALGNQFQTQQARTTVQQQFSD
TMGMV	PYTINSPSQFVYLSSAYADPVQLINLCTNALGNQFQTQQARTTVQQQFAD
TMV-OB	PYTVTSPSQLVYFGSVWADPITFIDLCTVALGNQFQTQNARTTVQQQFSD
PMMV	AYTVSSANQLVYLGSVWADPLELQNLCTSALGNQFQTQQARTTVQQQFSD
PkMMV	PYTVSSPNQLVYFGSVWADPIALIDLCTVSLGNQFQTQNARTTVQQQFSD
ORSV	SYTITDPSKLAYLSSAWADPNSLINLCTNSLGNQFQTQQARTTVQQQFAD
ORSV-F	SYTITDPSKLAYLSSAWADPNSLINLCTNSLGNQFQTQQARTTVQQQFAD
CR-TMV	SYNITNPNQYQYFAAVWAEPIPMLNQCISALSQSYQTQAARDTVRQQFSN
TVCV	SYNITNPNQYQYFAAVWAEPIPMLNQCMSALSQSYQTQAARDTVRQQFSN
RMV	SYNITNSNQYQYFAAVWAEPTPMLNQCVSALSQSYQTQAGRDTVRQQFAN
HRMV.GER	SYNITNSNQYQYFAAVWAEPTPMLNQCVSALSQSYQTQAGRDTVRQQFAN
HRMV.JAP	SYNITNSNQYQYFAAVWAEPTPMLNQCVSALSQSYQTQAGRDTVRQQFAN
WASABI	SYNITNSNQYQFFAAVWAEPIAMLNQCVSALSQSYQTQAARDTVRQQFSN
TMV-CG	SYNITSSNQYQYFAAMWAEPTAMLNQCVSALSQSYQTQAARDTVRQQFSN
CRMV	VYNITSSNQYQYFAAMWAEPTAMLNQCVSALSQSYQTQAARDTVRQQFSN
RMV-SH	VYNITSSNQYQYFAAMWAEPTAMLNQCVSALSQSYQTQAARDTVRQQFSN
RMV-SH	SYNITSSNQYQYFAAMWAEPTAMLNQCVSALSQSYQTQAARDTVRQQFSN
RMV-CAB	SYNITSSNQYQYFAAMWAEPQAMLNQCVSALSQSYQTQAARDTVRQQFSN
CGMMV	AYNPITPSKLIAFSASYVPVRTLLNFLVASQGTAFQTQAGRDSFRESLSA
CGMMV-W	AYNPITPSKLIAFSASYVPVRTLLNFLVASQGTAFQTQAGRDSFRESLSA
C-CGMMV	SYSTSGIRSLPAFAKSFYPFYDVYNLLVSAQGGALQTQNGKDILRESLTG
CFMMV	SYSTSGLRSLPAYTKSFCPYYALYDLLVSAQGGALQTQNGKDILRDSING
YCGMMV	SYSISSFRSLPAYTKSFYPFIEFYNLLVSSQGGALQTQNGKDISRESLNG
KGMMV	SYSTSGIRSLPAFAKSFYPFYDVYNLLVSAQGGALQTQNGKDILRESLTG
ZGMMV	PYSTSGIRSLPAFSKSFFPYLELYNLLITNQGAALQTQNGKDILRESLVG
SHMV	AYSIPTPSQLVYFTENYADYIPFVNRLINARSNSFQTQSGRDELREILIK
	50
TMV-OM	VWKPSPQVTVRFPD-SD-FKVYRYNAVLDPLVTALLGAFDTRNRIIEVEN
S34858	VWKPSPQVTVRFPD-SD-FKVYRYNAVLDSLVTALLGAFDTRNRIIDVEN
S34857	VWKPSPQVTVRFPD-SD-FKVYRYNAVLDPLVTALLGAFDTRNRIIDVEN
S34856	VWKPSPQVTVRFPD-SD-FKVYRYNAVLDPLVTALLGAFDTRNRIIDVEN
TMV-ER	VWKPSPQVTVRFPD-RD-FKVYRYNAVLDPLVTALLGAFDTRNRIIEVEN
TMV-06	VWKPSPQVTVRFPD-RD-FKVYRYNAVLDPLVTALLGAFDTRNRIIEVEN
TMV	VWKPSPQVTVRFPD-SD-FKVYRYNAVLDPLVTALLGAFDTRNRIIEVEN
TMV-DA	VWKPFPQSTVRFPG-DV-YKVYRYNAVLDPLITALLGTFDTRNRIIEVEN
TOMV-L	VWKPFPQSTVRFPG-DV-YKVYRYNAVLDPLITALLGAFDTRNRIIEVEN
TOMV-KR	VWKTIPTATVRFPA-TG-FKVFRYNAVLDSLVSALLGAFDTRNRIIEVEN
TMGMV	AWKPVPSMTVRFPA-SD-FYVYRYNSTLDPLITALLNSFDTRNRIIEVDN
TMV-OB	LFKTVPTRTNRFNDGENGFRVFRYNSTLDPLISALMNSFDTRNRIIEVDN
PMMV	VWKTIPTATVRFPA-TG-FKVFRYNAVLDSLVSALLGAFDTRNRIIEVEN
PKMMV	LFKTVPTRTIRFSDGENGFRVFRYNSTLDPLITALLNSFDTRNRIIETEN
ORSV	VWQPVPTLTSRFPAGAGYFRVYRYDPILDPLITFLMGTFDTRNRIIEVEN
ORSV-F	VWQPVPTLASRFPAGAGYFRDYRYDPILDPLITFLMGTFDTRNRIIEVEN
CR-TMV	LLSAVVAPSQRFPE-TG-SRVYVNSAVIKPLYEALMKSFDTRNRIIETEE
TVCV	LLSAVVTPSQRFPD-TG-SRVYVNSAVIKPLYEALMKSFDTRNRIIETEE

AAB08579	LLSTIVAPNQRFPD-TG-FRVYVNSAVIKPLYEALMKSFDTRNRIIETEE
HRMV.GER	LLSTIVAPNQRFPD-TG-FRVYVNSAVIKPLYEALMKSFDTRNRIIQTEE
HRMV.JAP	LLSTIVAPNQRFPD-TG-FRVYVNSAVIKPLYEALMKSFDTRNRIIETEE
WASABI TMV-CG	LLSAIVTPNQRFPE-TG-YRVYVNSAVLKPLYEALMKSFDTRNRIIETEE
CRMV	LLSAIVTPNQRFPD-TG-YRVFINSAVLKPLYESLMKSFDTRNRIIETEE LLSAIVTPNORFPE-AG-YRVYINSAVLKPLYESLMKSFDTRNRIIETEE
RMV-SH	LLSAIVTPNQRFPE-TG-YRVYINSAVLKPLYESLMKSFDTRNRIIETEE
AAD56047	LLSAIVTPNQRFPE-TG-YRMYINSAVLKPLYESLMKSFDTRNRIIETEE
AAD20292	LLSAIVTPNQRFFE-IG-IRMIINSAVLKPLYEALMKSFDTRNRIIETEE
CGMMV	LPSSVVDINSRFPD-AG-FYAFLNGPVLRPIFVSLLSSTDTRNRVIEVVD
CGMMV-W	LPSSVVDINSRFPD-AG-FYAFLNGPVLRPIFVSLLSSTDTRNRVIEVVD
C-CGMMV	LLTSVASLNSRFPA-NE-FFVWSRESRIAAIIDSLLSALDSRNRAIEVEN
CFMMV	LLTTVASPRSRFPA-EG-FFVWSRESRIAAILDSLLSALDSRNRAIEVEN
YCGMMV	LLTSVASPKSRFPA-GE-AFVWSRESRIAAILDSLLSALDSRNRAIEVEN
KGMV	LLTSVASLNSRFPA-NE-FFVWSRESRIAAIIDSLLSALDSRNRAIEVEN
ZGMV	LLSSVASPTSOFPS-GV-FYVWSRESRIAALIDSLFGALDSRNRAIEVEN
SHMV	SQVSVVSPISRFPAEPA-YYIYLRDPSISTVYTALLQSTDTRNRVIEVEN
	_
	100
TMV-OM	QANPTTAETLDATRRVDDATVAIRSAINNLVVELIRGTGSYNRSSFESSS
S34858	QANPTTAETLDATRRVDDATVAIRSAINNLIVELIRGTRSYNRSSFESSY
S34857	QANPTTAETLDATRRVDDATVAIRSAINNLIVELIRGTRSYNRSSFESSS
S34856	QANPMTAETLDATRRVDDATVAIRSAINNLIVELIRGTGSYNRSSFESSS
TMV-ER	QANPTTAETLDATRRVDDATVAIRSAINNLIVELIRGTGSYNRSSFESSS
TMV-06	QANPTTAETLDATRRVDDATVAIRSAINNLMVELIRGTGSYNRSSFESSS
TMV	QANPTTAETLDATRRVDDATVAIRSAINNLIVELIRGTGSYNRSSFESSS
TMV-DA	QQSPTTAETLDATRRVDDATVAIRSAINNLVNELVRGTGLYNQNTFESMS
TOMV-L	QQSPTTAETLDATRRVDDATVAIRSAINNLVNELVRGTGLYNQNTFESMS
TOMV-KR	PQNPTTAETLDATRRVDDATVAIRASISNLMNELVRGTGMYNQALFESAS
TMGMV	QPAPNTTEIVNATQRVDDATVAIRASINNLANELVRGTGMFNQAGFETAS
TMV-OB PMMV	PANPNTSEVASATQRVDDATVNIRACINNLMNELVRGTGMMNTASFETVS
PKMMV	PQNPTTAETLDATRRVDDATVAIRASISNLMNELVRGTGMYNQALFESAS PANPNTAEIASATQRVDDATVSIRACINNLMNELARGTGMLNTVSFETIS
ORSV	PQNPTTTETLDATRRVDDATVAIRSAINNLLNELVRGTGMYNQVSFETIS
ORSV-F	PQNPTTTETLDATRRVDDATVAIRSAINNLLNELVRGTGMYNQVSFETMS
CR-TMV	ESRPSASEVRNATQRVDDATVSIRSQIQLLLSELSSGHGYMNRAEFEAL-
TVCV	ESRPSASEVANATQRVDDATVAIRSQIQLLLSELSNGHGYMNRAEFEAL-
AAB0857	9 ESRPSASEVANATQRVDDATVAIRSQIQLLLNELSNGHGYMNRAEFEAI-
HRMV.GER	QSRPSASQVANATQRVDDATVAIRSQIQLLLNELSNHGGYMNRAEFEAI-
HRMV.JAP	ESRPSASQVADATQRVDDATVAIRSQIQLLLNELSNHGGYMDRAQFEAI-
WASABI	ESRPSASEVANATQRVDDATVAIRSQIQLLLSELSSGHGLMNRAEFEVL-
TMV-CG	ESRPSASEVANATQRVDDATVAIRSQIQLLLNELSNGHGLMNRAEFEVL-
CRMV	ESRPSASEVANATQRVDDATVAIRSQIQLLLNELSNGHGLMNRAEFEVL-
RMV-SH	ESRPSASEVANATQRVDDATVAIRSQIQLLLNELSNGHGLMNRAEFEVL-
AAD56047	ESRPSASEVANATQRVDDATVAIRSQIQLLLNELSNGHGLMNRAEFEVL-
AAD20292	ESRPSASEVANATQRVDDATVAIRSQIQLLLNELSNGHGLMNRAEFEVL-
CGMMV	PSNPTTAESLNAVKRTDDASTAARAEIDNLIESISKGFDVYDRASFEAAF
CGMMV-W	PSNPTTAESLNAVKRTDDASTAARAEIDNLIESISKGFDVYDRASFEAAF
C-CGMMV	PSNPSTGEALNATKRNDDASTAAHNDI PLLLAALNDGVGVFDSASFESAF
CFMMV	PSNPSTSEALNATKRNDDASTAAHNDIPQLISALNDGAGVFDRASFESQF
YCGMMV	PSNPSTGEALNATKRNDDASTAAHNDIPLLLAALNDGVGVFDTASFESAF
KGMV ZGMV	PSNPSTGEALNATKRNDDASTAAHNDIPLLLAALNDGVGVFDSASFESAF PSNPSTGEALNAVKRNDDASTAAHNDIPOILSALNEGAGVFDRASFESAF
SHMV	STNVTTAEQLNAVRRTDDASTAIHNNLEQLLSLLTNGTGVFNRTSFESAS
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	150
TMV-OM	GLVWNSGPA
S34858	GLVWTSGPA
S34857	GLVWTSGPA
S34856	GLVWTSGPA

TMV-ER	GLVWTSGPA
TMV-06	GLVWTSGPA
TMV	GLVWTSGPA
TMV-DA	GLVWTSAPA
TOMV-L	GLVWTSAPA
TOMV-KR	GLTWATTP?
TMGMV	GLVWTTTPA
TMV-OB	NLTWTTTTT
PMMV	GLTWATTP?
PKMMV	NLTWTTAAT
ORSV	GLTWTSS??
ORSV-F	GLTWTSS??
CR-TMV	-VPWTTAAA
TVCV	-LPWTTAPA
AAB0857	-LPWTTAPA
HRMV.GER	-LPWTTAPA
HRMV.JAP	-LPWTTAPA
WASABI	-IPWATAPA
TMV-CG	-LPWTTAPA
CRMV	-LPWATAPA
RMV-SH	-LPWATAPA
AAD56047	-LPWATAPA
AAD20292	-LPWTTAPA
CGMMV	SVVWSEATT
CGMMV-W	SVVWSEATT
C-CGMMV	GLTWTASAT
CFMMV	GLVWTAASS
YCGMMV	GLTWTASSS
KGMV	GLTWTASAT
ZGMV	GLVWTAGSS
SHMV	GLTWLVTTT

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